

WHAT IS CLAIMED IS:

1. A method comprising:
detecting a failure of a first virtualization device of a storage area network
interconnect,
wherein said first virtualization device is associated with a unique interconnect
device identifier; and
associating said unique interconnect device identifier with a second virtualization
device of said storage area network interconnect in response to said detecting.
2. The method of claim 1 wherein
said storage area network interconnect is coupled to an application host and to a
storage device,
said first virtualization device is configured to present a virtual storage element to said
application host using a host device identifier, and
said virtual storage element comprises at least a portion of said storage device.
3. The method of claim 2 wherein
said second virtualization device is configured to present said virtual storage element
to said application host using said host device identifier in response to said
associating.
4. The method of claim 3 wherein said detecting comprises:
monitoring a communications link for a heartbeat signal from said first virtualization
device.
5. The method of claim 3 wherein
said storage area network interconnect is further coupled to a metadata host,
said metadata host is configured to maintain metadata associated with said virtual
storage element, and
said associating comprises modifying said metadata.

6. The method of claim 5 wherein
said modifying comprises generating a metadata entry corresponding to said second
virtualization device, and
said metadata entry comprises said unique interconnect device identifier.
7. The method of claim 3 further comprising:
storing a volume map at said second virtualization device in response to said
detecting.
8. The method of claim 3 wherein said unique interconnect device identifier comprises a
Fibre Channel device identifier.
9. The method of claim 3 wherein said unique interconnect device identifier comprises
at least one of a world wide node name and a world wide port name.
10. The method of claim 3 wherein
said first virtualization device comprises a first virtualization switch, and
said second virtualization device comprises a second virtualization switch.
11. A machine-readable medium having a plurality of instructions executable by a
machine embodied therein, wherein said plurality of instructions when executed cause said
machine to perform a method comprising:
detecting a failure of a first virtualization device of a storage area network
interconnect,
wherein said first virtualization device is associated with a unique interconnect
device identifier;
associating said unique interconnect device identifier with a second virtualization
device of said storage area network interconnect in response to said detecting.
12. The machine-readable medium of claim 11 wherein
said storage area network interconnect is coupled to an application host and to a
storage device,
said first virtualization device is configured to present a virtual storage element to said
application host using a host device identifier, and
said virtual storage element comprises at least a portion of said storage device.

13. The machine-readable medium of claim 12 wherein
said second virtualization device is configured to present said virtual storage element
to said application host using said host device identifier in response to said
associating.
14. The machine-readable medium of claim 13 wherein said detecting comprises:
monitoring a communications link for a heartbeat signal from said first virtualization
device.
15. The machine-readable medium of claim 13 wherein
said storage area network interconnect is further coupled to a metadata host,
said metadata host is configured to maintain metadata associated with said virtual
storage element, and
said associating comprises modifying said metadata.
16. The machine-readable medium of claim 15 wherein
said modifying comprises generating a metadata entry corresponding to said second
virtualization device, and
said metadata entry comprises said unique interconnect device identifier.
17. The machine-readable medium of claim 13, said method further comprising:
storing a volume map at said second virtualization device in response to said
detecting.
18. The machine-readable medium of claim 13 wherein said unique interconnect device
identifier comprises a Fibre Channel device identifier.
19. The machine-readable medium of claim 13 wherein said unique interconnect device
identifier comprises at least one of a world wide node name and a world wide port name.
20. The machine-readable medium of claim 13 wherein
said first virtualization device comprises a first virtualization switch, and
said second virtualization device comprises a second virtualization switch.

21. A data processing system comprising:
 - means for detecting a failure of a first virtualization device of a storage area network interconnect, wherein
 - said first virtualization device is associated with a unique interconnect device identifier,
 - said storage area network interconnect is coupled to an application host and to a storage device,
 - said first virtualization device is configured to present a virtual storage element to said application host using a host device identifier, and
 - said virtual storage element comprises at least a portion of said storage device;
 - and
 - means for associating said unique interconnect device identifier with a second virtualization device of said storage area network interconnect coupled to said means for detecting.
22. The data processing system of claim 21 wherein
 - said second virtualization device is configured to present said virtual storage element to said application host using said host device identifier in response to said associating.
23. The data processing system of claim 22 wherein said means for detecting comprises:
 - means for monitoring a communications link for a heartbeat signal from said first virtualization device.
24. The data processing system of claim 22 wherein
 - said storage area network interconnect is further coupled to a metadata host, and
 - said metadata host is configured to maintain metadata associated with said virtual storage element, and
 - said means for associating comprises means for modifying said metadata.
25. The data processing system of claim 22 wherein said unique interconnect device identifier comprises a Fibre Channel device identifier.
26. The data processing system of claim 22 wherein said unique interconnect device identifier comprises at least one of a world wide node name and a world wide port name.

27. The data processing system of claim 22 wherein
said first virtualization device comprises a first virtualization switch, and
said second virtualization device comprises a second virtualization switch.
28. A data processing system comprising:
a monitor module to monitor a communications link for a heartbeat signal from a first
virtualization device of a storage area network interconnect,
wherein said first virtualization device is associated with a unique interconnect
device identifier; and
a failover module coupled to said monitor module to detect a failure of said first
virtualization device and to associate said unique interconnect device identifier
with a second virtualization device of said storage area network interconnect
in response to said detecting.
29. The data processing system of claim 28 wherein
said storage area network interconnect is coupled to an application host and to a
storage device,
said first virtualization device is configured to present a virtual storage element to said
application host using a host device identifier, and
said virtual storage element comprises at least a portion of said storage device.
30. The data processing system of claim 29 wherein
said second virtualization device is configured to present said virtual storage element
to said application host using said host device identifier following a failure of
said first virtualization device.